

What is claimed is:

- 1 1. A headlight for use by physicians comprising:
 - 2 a) an adjustable headband for placing on a user's
 - 3 head;
 - 4 b) at least two forward-facing lamp housings
 - 5 disposed adjacent one another proximate a central
 - 6 position on a front side of said headband; and
 - 7 c) at least one light emitting diode (LED) disposed
 - 8 in each of said lamp housings.
- 1 2. The headlight as recited in claim 1, wherein said at
- 2 least two forward-facing lamp housings disposed adjacent one
- 3 another proximate a central position on a front side of said
- 4 headband are independently pivotally affixed thereto, whereby
- 5 light output from each of said at least two LEDs in said lamp
- 6 housings may be converged at a spot a predetermined distance
- 7 forward therefrom.
- 1 3. The headlight as recited in claim 2, wherein said
- 2 lamp housings further comprise means for focusing light from
- 3 said at least one LED.

1 4. The headlight as recited in claim 3, wherein said
2 means for focusing light comprises at least one reflector
3 disposed proximate said at least one LED.

1 5. The headlight as recited in claim 4, wherein said at
2 least one reflector comprises a reflector disposed behind said
3 at least one LED and a reflector placed forward of said at
4 least one LED, said reflectors arranged so as to cooperatively
5 gather light output from said at least one LED and project
6 said gathered light in a forward direction.

1 6. The headlight as recited in claim 5, wherein said at
2 least one of said reflectors comprises a substantially
3 parabolic shape.

1 7. The headlight as recited in claim 2, wherein said
2 adjustable headband comprises means for adjusting said
3 headband to fit any user.

1 8. The headlight as recited in claim 2, further
2 comprising means for controlling light output from at least
3 one of said LEDs.

1 9. The headlight as recited in claim 8, wherein said
2 means for controlling light output from at least one of said
3 LEDs comprises at least one of the devices: a switch, means
4 for varying the intensity of said at least one LED.

1 10. The headlight as recited in claim 2, further
2 comprising a battery for supplying power to said at least one
3 LED disposed in each of said at least two lamp housings.

1 11. The headlight as recited in claim 10, wherein said
2 battery comprises at least two batteries.

1 12. The headlight as recited in claim 11, wherein at
2 least one of said at least two batteries is attached to said
3 headband.

1 13. The headlight as recited in claim 11, wherein at
2 least one of said at least two batteries is disposed
3 externally to said headband.

1 14. The headlight as recited in claim 11, wherein said
2 at least two batteries further comprise means for replacing
3 one of said at least two batteries without interrupting light
4 output from said at least one LED disposed in said at least
5 two lamp housings.

1 15. The headlight as recited in claim 11, wherein said
2 at least two batteries further comprise means for regulating
3 power from said at least two batteries to maintain
4 substantially constant light output from said at least one LED
5 disposed in said at least two lamp housings.

1 16. The headlight as recited in claim 2, further
2 comprising cushioning means disposed proximate an inside
3 surface of said headband.

1 17. A headlight for use by physicians comprising:

2 a) an adjustable headband for placing on a user's
3 head;

4 b) at least two forward-facing lamp housings
5 disposed adjacent one another proximate a central
6 position on a front side of said headband;

7 c) at least one light emitting diode (LED) disposed
8 in each of said lamp housings; and

9 d) a source of electrical power operatively
10 connected to each of said at least one LED.

1 18. The headlight as recited in claim 17, wherein said
2 at least two forward-facing lamp housings disposed adjacent
3 one another proximate a central position on a front side of
4 said headband are independently pivotally affixed thereto,
5 whereby light output from each of said at least two LEDs in
6 said lamp housings may be converged at a spot a predetermined
7 distance forward therefrom.

1 19. The headlight as recited in claim 18, wherein said
2 source of electrical power comprises a rechargeable battery.

1 20. The headlight as recited in claim 19, wherein said
2 source of electrical power comprises at least one rechargeable
3 battery, said at least one rechargeable battery disposed in at
4 least one of the locations: affixed to said headband, and
5 located externally to said headband.

1 21. The headlight as recited in claim 20, further
2 comprising means for controlling light output from at least
3 one of said LEDs.

1 22. The headlight as recited in claim 21, wherein said
2 means for controlling light output from at least one of said
3 LEDs comprises at least one of the devices: a switch, means
4 for varying the intensity of said at least one LED.